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2/4 Port USB DisplayPort® KVM Switch with Audio

SV231DPUA / SV431DPUA

*actual product may vary from photos

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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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Introduction

Features

- Easy installation, no drivers required
- Supports Plug and Play and hot swap to save time from rebooting the computer
- Supports data transfer rates up to 480Mbps when used on a USB 2.0 port

Package Contents

- SV231DPUA or SV431DPUA KVM switch
- Power Adapter
- Rubber Feet
- Instruction Manual

System Requirements

- DisplayPort enabled computer system/video card
- USB enabled computer system
- DisplayPort enabled display device (e.g. monitor, projector, TV, etc.)
- Standard 104-key wired USB keyboard
- Standard 3-button wired USB mouse

Installation

NOTE: Prior to the installation, please power off all devices that will be connected to this system. Ensure that all devices you will connect are properly grounded. Place cables away from fluorescent lights, air conditioners, and machines that are likely to generate electrical noise.

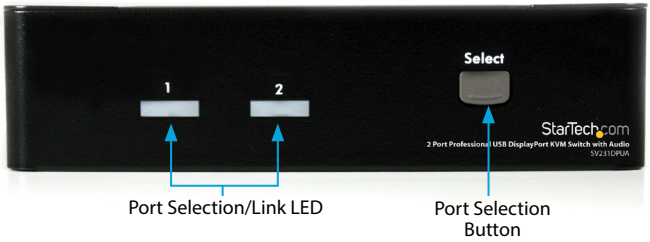
If you experience any problems using a USB KVM switch, the following BIOS setup changes may be necessary for PC users and not necessary for Mac users:

- Set HALT ON ERROR to ALL BUT KEYBOARD.
- In PNP AND PCI SETUP, set PNP OS INSTALLED to YES and set USB IRQ to ENABLED.

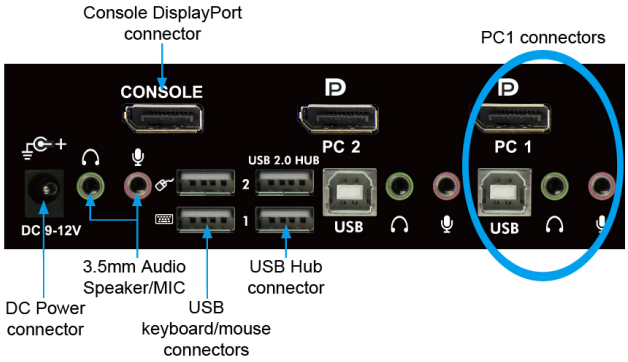
Different systems may use different naming, so contact your system manufacturer for further assistance with these settings.

Hardware Installation

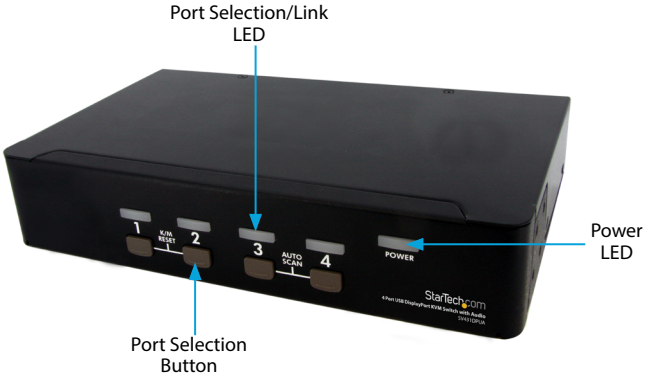
Front View - SV231DPUA



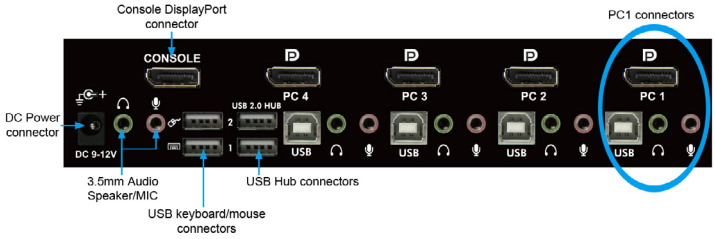
Rear View - SV231DPUA

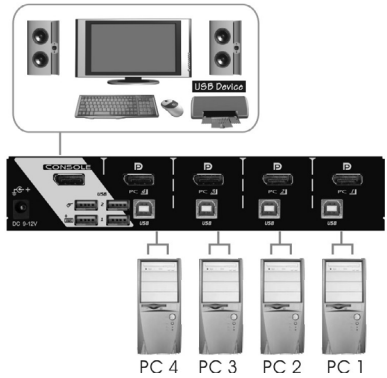


Front View - SV431DPUA



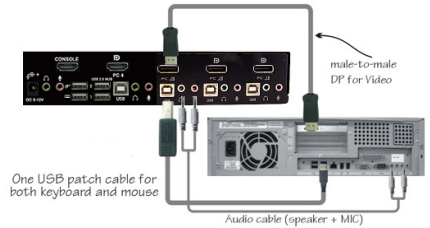
Rear View - SV431DPUA





*installation pictures are representations only

1. Plug a monitor into the Console's DisplayPort connector; plug a USB keyboard and a USB mouse into the dedicated USB keyboard and mouse ports on the KVM switch. If using audio, also connect speakers and/or a microphone with 3.5mm mini-jack plugs.
2. Use a male-to-male DisplayPort video cable to connect the DisplayPort connector on the computer's video card, to one of the KVM's PC ports (i.e. PC1)
3. Use a USB type A-B Cable to connect the KVM's USB port (type B, square connector) for the PC port used in Step 2, and the USB port on the computer (type A, flat connector). If using audio, connect 3.5mm mini-jack cables from the PC port to the computer sound card.



NOTE: A DisplayPort + USB + Audio KVM combo cable is also available which can be

used in place of separate individual cables, StarTech.com ID: DP4N1USB6.

4. Repeat for Steps 2 and 3 for each PC port on the KVM switch, or each computer you wish to use on the KVM.
5. **OPTIONAL:** Connect any other USB peripherals you wish to share between the connected computers/devices to the extra USB Hub ports on the Console side.
6. Connect the external power adapter from a wall outlet to the power connector on the rear panel of the KVM switch. The Power LED should light up solid and/or the LED for the selected PC port.
7. Power up the first computer/device and wait for it to fully boot and test keyboard/mouse functionality.
8. Once operation has been successfully confirmed, switch to the next port and power up that computer/device and confirm.
9. Once completed for all computers/devices connected to the KVM switch, you should be able to switch between ports freely.

Driver Installation

No driver installation is required for the KVM switch, as the keyboard and mouse use generic USB keyboard/mouse drivers that are already installed on any operating system that fully supports USB.

Operation

Front Panel

Port Selection/Link LED

The LED turns green when the connected computer is powered-on. The corresponding LED will also illuminate red when that PC port is currently selected.

Port Selection Button

2-Port: Pressing the front panel "Select" button will toggle between the two ports on the KVM switch.

4-Port: Each push button on the front panel corresponds with a PC port. Pressing that button will immediately select that port.

AutoScan

The system automatically scans through the power-on computers in sequence with a fixed interval (see Scan Time below).

4-Port: To activate AutoScan, press front panel push buttons "3" and "4" simultaneously. The port selection LED will flash during AutoScan. AutoScan will select active computers only. To exit AutoScan mode, just press any one of the front panel push buttons.

Scan Time

Four options are available for users to set the Scan Time duration, it Includes 3, 8, 15 and 30 seconds.

Note: Scan Time is set to 3 seconds by default.

4-Port: To change the Scan Time, press front panel buttons "1" and "2" simultaneously. The unit will respond with beep(s) of 1, 2, 3 or 4 times for a Scan Time of 3, 8, 15 or 30 seconds respectively.

HotKey Control

A Hotkey command is a short keyboard sequence for selecting a computer, activating computer scan, etc. A hotkey sequence starts with two left <CTRL> keystrokes (successively within 0.2 seconds) followed by one or two more keystrokes. A built-in tone generator creates a high-pitch beep for correct hotkey command; otherwise, one low-pitch beep is generated for errors and the bad key sequence will not be forwarded to the selected computer.

NOTE: Press and hold Left <SHIFT> and press <NumLock> twice, then release <SHIFT> followed by pressing left <CTRL> once, which will enable / disable the hotkey feature.

To select a computer:

Left <CTRL> + Left <CTRL> + <1>

(Example: Selects the computer at port 1.)

Left <CTRL> + Left <CTRL> + <2>

(Example: Selects the computer at port 2.)

NOTE: Do not use the keypad on the right-side of the keyboard.

Auto Scan

The KVM automatically scans through the powered-on computers in sequence on a fixed time interval (see Scan Time below).

Note: The keyboard and mouse are not operable during Auto Scan.

To start Auto Scan:

Left <CTRL> + Left <CTRL> + <F1>

To abort the Auto Scan mode, press the left <CTRL> key twice. When Auto Scan detects any keyboard or mouse activity, it suspends the scanning till the activity stops; it then resumes with the next computer in sequence. The length of the Auto Scan interval (Scan Time) is adjustable, see below.

Manual Scan

Manual Scan allows users to manualls switch back and forth between powered-on computers.

Left <CTRL> + Left <CTRL> + <F2>

To select the previous or the next computer, press <UP> or <DOWN> arrow keys. To abort the Manual Scan, press any other key.

Scan Time

Four options are available for users to set the Scan Time duration, it includes 3, 8, 15 and 30 seconds.

Note: Scan Time is set to 3 seconds by default.

To adjust Scan Rate, set the scan time of duration before switching to the next computer:

Left <CTRL> + Left <CTRL> + <F3>

The KVM Switch generates 1 to 4 beeps indicating a scan time duration for 3, 8, 15 or 30 seconds respectively.

Audio Lock

There are two options for Audio Lock: ON and OFF. When ON, audio selection follows computer selection. When OFF, audio selection stops following computer selection. It is useful if you want to listen to a particular computer's audio signal while operating other computers.

Left <CTRL> + Left <CTRL> + <F5>

The KVM switch beeps once or twice corresponding to ON and OFF respectively.

To change which computer port the audio stays on to the currently selected port, press the following hotkey:

Left <CTRL> + Left <CTRL> + <A>

USB 1: press the hotkey below to turn ON/OFF the USB-Port Rule on both USB Hub ports (2-port only) or USB Hub port 1 (4-port only):

Left <CTRL> + Left <CTRL> + <F7>

USB 2: press the hotkey below to turn ON/OFF the USB-Port Rule on USB Hub port 2 (4-port only):

Left <CTRL> + Left <CTRL> + <F8>

To change the PC port that the USB hub stays on to the currently selected PC port, press the following hotkey:

Left <CTRL> + Left <CTRL> + <U>

NOTE: Please make sure that installation of the USB device has been accomplished before switching to the next computer.

Alternative Hotkey Commands

In addition to the Left <CTRL> + Left <CTRL> hotkeys, there are two alternative hotkey sequences available.

1. 1. For the following operations, users may press <ScrollLock> twice instead of pressing left <CTRL> twice.

To select a computer:

<ScrollLock> + <ScrollLock> + <1>

(Example: Select the computer at port 1.)

<ScrollLock> + <ScrollLock> + <2>

(Example: Select the computer at port 2.)

NOTE: Do not use the keypad at the right of the keyboard.

2. For those keyboards that do not have or support <ScrollLock>, please press and HOLD the Left <SHIFT> and press <NumLock> twice instead of pressing Left <CTRL> twice.

To select a computer:

hold Left <SHIFT> + press <NumLock> + press <NumLock>

then release <SHIFT> + press <1>

Example: Select the computer at port 1.)

hold Left <SHIFT> + press <NumLock> + press <NumLock>

then release <SHIFT> + press <2>

(Example: Select the computer at port 2.)

NOTE: Do not use the keypad at the right of the keyboard.

Change Leading Hotkey

The default leading hotkey sequence involves pressing the left <CTRL> twice in succession (e.g. left <CTRL> + left <CTRL>). This can be changed to the right <CTRL> key instead, to avoid accidental activation due to using the left <CTRL> key for functions such as Copy/Paste.

To change the leading hotkey sequence to Right <CTRL>:

Left <CTRL> + Left <CTRL> + hold <ALT> + press Right <CTRL>

All hotkey commands that previously required pressing the Left <CTRL> will be switched to requiring the right <CTRL> instead.

To change the leading hotkey sequence back to Left <CTRL>:

Right <CTRL> + Right <CTRL> + hold <ALT> + press Left <CTRL>

Specifications

	SV231DPUA	SV431DPUA
Number of Ports	2	4
Computer Connectors (per port)	1 x DisplayPort 1 x USB type B 2 x 3.5mm mini-jack	
Console Connectors	1 x DisplayPort 1 x USB type 2 x 3.5mm mini-jack	
LEDs	2 x Port Select/Power	1 x Power 4 x Port Select/Power
Maximum Video Resolution	2560 x 1600 @ 60Hz (higher resolutions may be supports at lower refresh rates)	
Switching Modes	Front Panel Button, Hotkey	
Rack Mountable	No	Yes (optional kit)
Cascadable	No	
On Screen Display	No	
DDC2B Support	Yes	
Audio	Yes	
Enclosure Material	Metal	
Power Adapter	9-12VDC, 1.5A	

	SV231DPUA	SV431DPUA
Operating Temperature	0°C ~ 40°C (32°F ~ 104°F)	
Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F)	
Humidity	0 ~ 80% RH	
Dimensions (WxHxD)	160.0mm x 44.0mm x 100.0mm	220.7mm x 44.0mm x 130.6mm
Weight	1050g	1100g

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Warranty Information

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